



GDP Consistency in GTAP 8

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GTAP Research Memorandum No. 25

September 2013

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From time to time, members of the GTAP network compare GTAP data with official statistics from national and international sources. This has recently been done for the GDP statistics in GTAP, v.8 (Wang et al., 2013), suggesting that there were significant discrepancies between GTAP statistics and official statistics. The purpose of this memorandum is to explain the reason for these apparent discrepancies and to demonstrate that the GTAP v.8 GDP statistics are indeed consistent with international macroeconomic source data.

Overview

This memorandum shows that GTAP's GDP matches World Bank's (WB) World Development Indicators (WDI) data, except for those countries for which data were not available from the WB at time of collection. Chapter 6 of the GTAP Documentation explains that we resort to other international data sources when data is not available at the WDI (Narayanan, 2012).

If GDP estimates are consistent, then why do network members find discrepancies? There are several reasons for this; first, the WB data gets updated four times per year and GTAP data is consistent with the fourth update, which corresponds, in the case of the GTAP v.8 release, to the December 2010 update. Therefore, if one were to compare GTAP's GDP figures with a more recent release of the WDI, discrepancies should be expected. The second reason is that there are multiple international data sources and these have discrepancies amongst them. The most important data sources with global coverage are: the International Monetary Fund (IMF) World Economic Outlook (WEO)¹, United Nations (UN) National Accounts data, and the WB WDI data.

The following sections demonstrate, by way of graphical comparisons, the consistency of GTAP with the WDI and why one may find discrepancies. First, we compare GTAP's GDP against the data we collect, then we compare GTAP's GDP data with more recent data from the same source. Finally, we compare recent data from two international data sources.

Macroeconomic data in GTAP Data Base

For version 8, which is benchmarked to the year 2007, we collected 2007 macroeconomic data from the IMF, UN, and WB. Among these, WB data was selected as the primary data source for

¹ Anecdotally, in version 7 we were questioned about the consistency of GTAP's GDP data against IMF's World Economic Outlook and within a week, when we performed a comparison we noticed that the IMF's data had been updated and matched WB data.

GDP, because it covers a wide range of countries and includes data that is already reconciled for statistical discrepancies. Additionally, we rely on the WB for information on key components of GDP expenditures (private consumption, government consumption, and gross fixed capital formation), as well as population data for the world’s major economies (Narayanan et al., 2012), so it makes sense to draw GDP from the same source. There were cases, however, for which the WB had no macroeconomic data; when this occurs, we resort to IMF or UN data.

Figure 1 reports the ratio of GTAP v8 GDP to WB GDP from the December 2010 release. It shows that GTAP GDP matches GDP of the World Bank at the time of collection (available at: <http://data.worldbank.org/data-catalog/world-development-indicators/wdi-2010>).

WB data at the time of collection did not have data for Zimbabwe. Therefore, for Zimbabwe we used UN data. At the time of collection, UN data reported Zimbabwe to have 4423.74 Million of 2007 USD, GTAP GDP matches this figure. See Table A1 for complete data set used to create Figure 1.

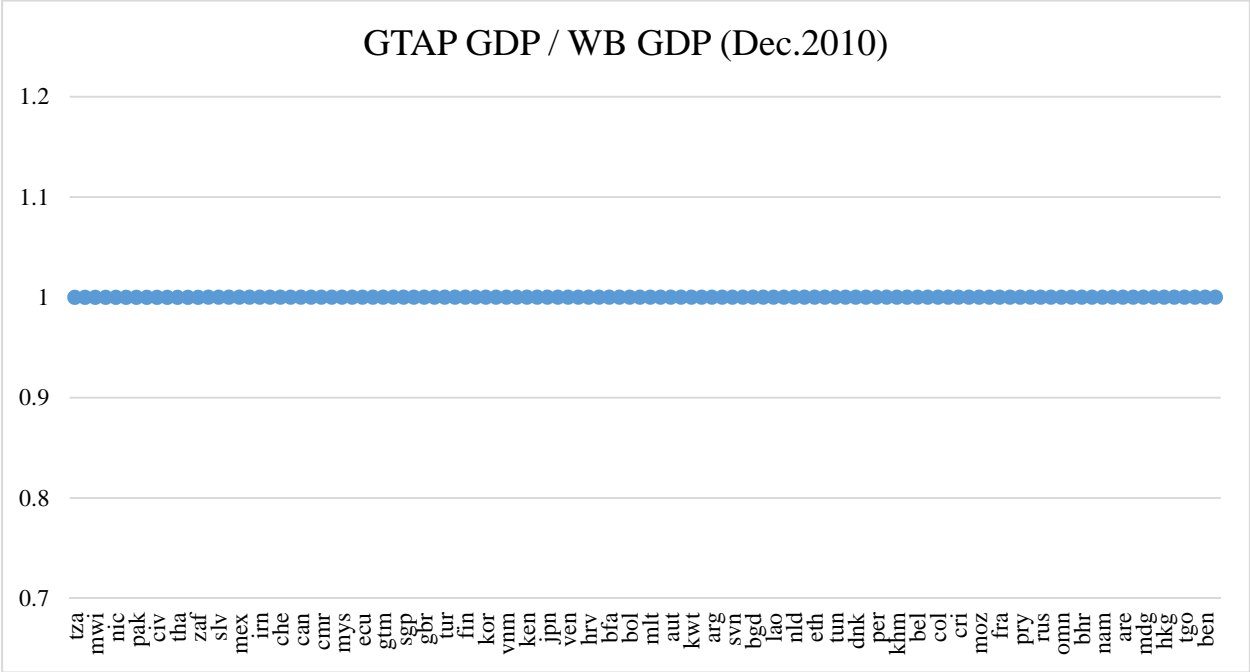


Figure 1. 2007 GDP, GTAP 8 against WB GDP from December 2010

Comparison between GTAP Data and recent WB collection

When GTAP's GDP is compared against a more recent collection from the WB, discrepancies appear, as should be expected. Figure 2 shows the discrepancies between GTAP's GDP and a recent download of WB's WDI GDP. Even though the time between collections is about a year and half, the WB data shows some discrepancies due to data for several countries which have been updated, the majority of countries, however, maintain a stable GDP. See Table A2 for complete data set used to create Figure 2.

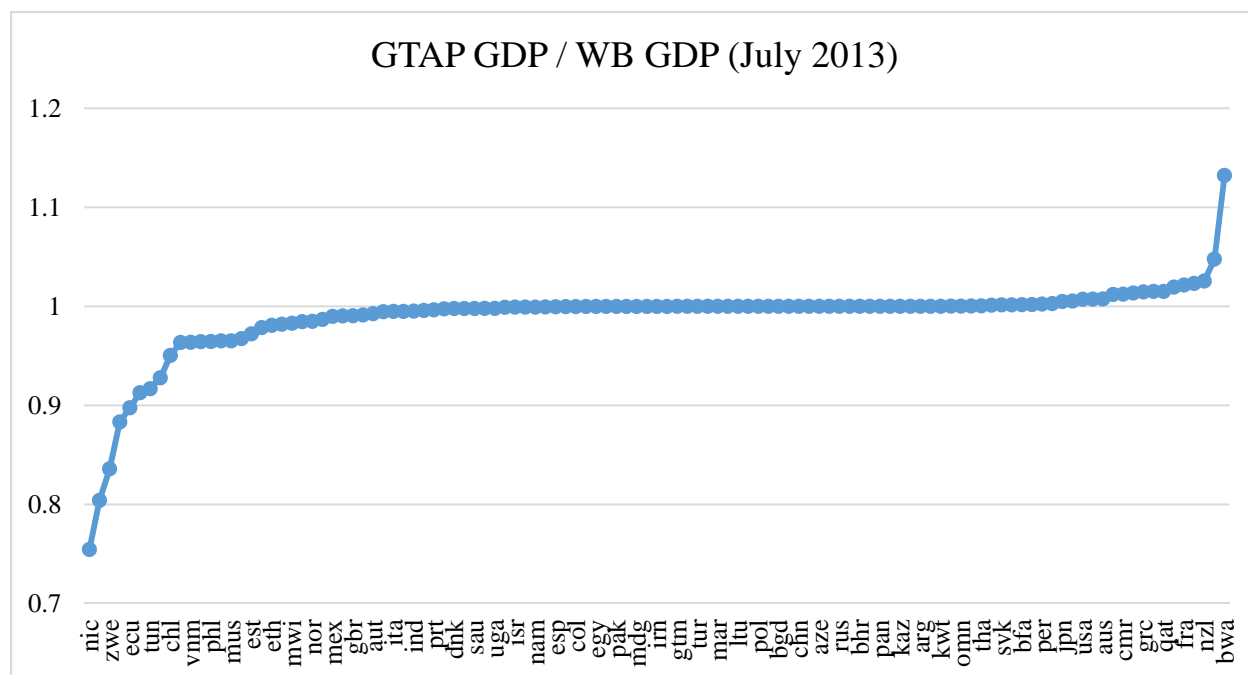


Figure 2. 2007 GDP, GTAP 8 against WB GDP from July 2013

The two countries for which the WB has lowered its initial estimate the most are Botswana and Singapore² (13 and 5 percent respectively). On the other end, the countries for which the WB has increased its initial estimate the most are Nicaragua (25%), United Arab Emirates (20%), Paraguay (12%), and Ecuador (10%). Table 1 lists the ten largest discrepancies between GTAP 8 Data and WB data from July 2013. Note that countries in Table 1 have a discrepancy of 5% or more.

² Singapore, as all other GTAP countries, is included in the Figure 2, but it does not appear in the label due to scaling.

Table 1. Ten largest discrepancies between GTAP 8 and WB data collected on July 2013

Country	GTAP 8 2007 GDP	WB WDI 2007 GDP (July 2013)	Ratio GTAP / WDI
United Arab Emirates	207,570.63	258,150.04	0.8041
Zimbabwe	4,423.76	5,291.95	0.8359
Paraguay	12,222.37	13,837.53	0.8833
Ecuador	45,789.35	51,007.78	0.8977
Rwanda	3,412.32	3,738.15	0.9128
Tunisia	35,619.61	38,848.71	0.9169
Mongolia	3,929.57	4,234.89	0.9279
Chile	164,315.30	172,868.47	0.9505
Singapore	176,766.27	168,705.76	1.0478
Botswana	12,385.77	10,939.07	1.1323

The GDP difference for Zimbabwe in GTAP and the WB cannot be directly made because at the time we collected the GDP estimates, the WB reported no data for Zimbabwe and we obtained this estimate from the UN.

Therefore, we can conclude that it does indeed make a difference when one harvests the GDP data for use in constructing the GTAP Data Base. Even waiting three years (Dec. 2007 to Dec. 2010) to download the WB GDP data is no guarantee that there will not be further adjustments.

Are macroeconomic data from the WB and UN consistent?

The answer to this question is a qualified 'yes'. Figure 3 compares recent UN data versus recent WB data. Adopting the UN estimates as a benchmark, the WB underestimates the most for the following countries: Australia (14%), Zimbabwe (12%), Uganda (12%), Botswana (12%), and Guinea (10%). On the other end, WB overestimates GDP the most for Ecuador (12%), Slovakia (12%), Paraguay (13%), and Nicaragua (32%). See Table A3 for complete data set used to create Figure 3.

Larger discrepancies would occur if GTAP's GDP is compared with recent UN GDP estimates because of more recent updates and because we are comparing a source of data we only use when data are missing in the WB data base. Table 2 lists the ten largest discrepancies between WB and UN data both collected in July 2013.

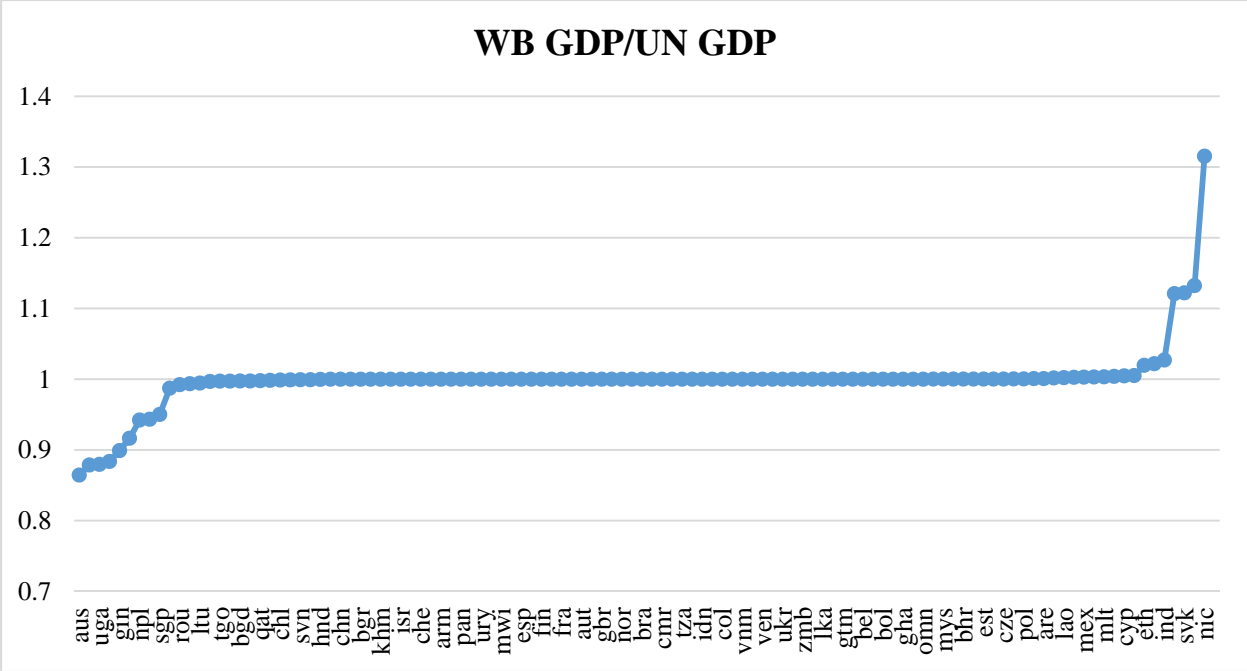


Figure 3. 2007 GDP, WB GDP against UN GDP from July 2013

Table 2. Ten largest discrepancies between WB and UN data collected on July 2013

Country Name	WDI 2007 GDP (JUL 2013)	UN 2007 GDP (JUL 2013)	Ratio WDI / UN
Nicaragua	7,446.64	5,662.05	1.31518
Paraguay	13,837.53	12,222.29	1.13215
Slovakia	84,108.56	74,965.95	1.12196
Ecuador	51,007.78	45,503.56	1.12096
Singapore	168,705.76	177,579.53	0.95003
Thailand	246,976.87	261,825.65	0.94329
Nepal	10,325.62	10,958.77	0.94222
Iran Islamic Republic of	286,057.93	312,141.19	0.91644
Guinea	4,209.33	4,682.05	0.89904
Botswana	10,939.07	12,379.04	0.88368
Uganda	11,916.02	13,548.70	0.87950
Zimbabwe	5,291.95	6,023.16	0.87860
Australia	850,516.61	983,998.04	0.86435

Final Remarks

The reference year in the GTAP Data Base is always a couple of years behind the latest GDP statistics available. This is important since the GTAP releases are both global and not updated and hence need to rely on stable, and complete, macro-economic data. In version 8 the new reference year was 2007. Nonetheless, GDP data collected at the end of 2010 has been revised a few times that have given way to some discrepancies. For the majority of countries, however, the GDP estimates we use remain consistent.

Given the nature of the data construction, and the fact that the majority of countries are shown to be consistent, we cannot produce a GTAP Data Base to match the various updates in GDP by international data sources such as World Bank's WDI. Of course, users can always update the data base themselves in order to match specific GDP level(s) while maintaining the internal consistency of the GTAP Data Base by running a pre-simulation using the GTAP model to match the most current GDP estimates. In this case, we recommend they utilize the "Altntax" closure and parameter file (Malcolm, 1998).

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Table A1. Comparison of 2007 GDP, GTAP 8 versus WB WDI collected in December 2010

Code	Country Name	GTAP's 2007 GDP	WDI 2007 GDP (DEC 2010)	Ratio GTAP/WDI
aus	Australia	856,910.88	856,911.47	0.999999
nzl	New Zealand	138,316.91	138,316.76	1.000001
chn	China	3,494,057.75	3,494,055.87	1.000001
hkg	Hong Kong	207,070.59	207,068.93	1.000008
jpn	Japan	4,377,944.50	4,377,943.85	1.000000
kor	Korea	1,049,236.00	1,049,235.95	1.000000
mng	Mongolia	3,929.57	3,929.79	0.999945
twn	Taiwan	393,762.56	N/A	
khm	Cambodia	8,357.55	8,357.54	1.000001
idn	Indonesia	432,103.22	432,105.25	0.999995
lao	Lao People's Democratic Republ	4,286.49	4,286.49	1.000000
mys	Malaysia	186,642.03	186,642.15	0.999999
phl	Philippines	144,070.53	144,070.42	1.000001
sgp	Singapore	176,766.27	176,766.32	1.000000
tha	Thailand	247,109.80	247,111.40	0.999994
vnm	Viet Nam	68,435.24	68,435.24	1.000000
bgd	Bangladesh	68,415.45	68,415.42	1.000000
ind	India	1,232,816.63	1,232,816.23	1.000000
npl	Nepal	10,282.58	10,282.58	1.000001
pak	Pakistan	143,169.64	143,171.18	0.999989
lka	Sri Lanka	32,351.19	32,351.18	1.000000
can	Canada	1,424,063.50	1,424,065.73	0.999998
usa	United States of America	14,061,780.00	14,061,800.00	0.999999
mex	Mexico	1,025,580.38	1,025,582.89	0.999998
arg	Argentina	260,789.20	260,789.10	1.000000
bol	Bolivia	13,120.10	13,120.10	1.000000
bra	Brazil	1,365,983.13	1,365,982.65	1.000000
chl	Chile	164,315.30	164,315.22	1.000000
col	Colombia	207,362.75	207,362.56	1.000001
ecu	Ecuador	45,789.35	45,789.37	0.999999
pry	Paraguay	12,222.37	12,222.36	1.000001
per	Peru	107,492.29	107,492.23	1.000001
ury	Uruguay	23,951.91	23,951.93	1.000000
ven	Venezuela	226,791.06	226,791.02	1.000000
cri	Costa Rica	26,267.18	26,267.16	1.000001

Code	Country Name	GTAP's 2007 GDP	WDI 2007 GDP (DEC 2010)	Ratio GTAP/WDI
gtm	Guatemala	34,113.09	34,113.10	1.000000
hnd	Honduras	12,392.33	12,392.44	0.999991
nic	Nicaragua	5,618.08	5,618.17	0.999985
pan	Panama	19,793.95	19,794.00	0.999998
slv	El Salvador	20,376.63	20,376.70	0.999997
aut	Austria	372,291.44	372,291.31	1.000000
bel	Belgium	458,620.06	458,619.73	1.000001
cyp	Cyprus	21,447.08	21,447.08	1.000000
cze	Czech Republic	174,214.97	174,214.94	1.000000
dnk	Denmark	310,721.19	310,721.02	1.000001
est	Estonia	21,384.00	21,383.91	1.000004
fin	Finland	246,583.81	246,583.83	1.000000
fra	France	2,638,203.25	2,638,200.26	1.000001
deu	Germany	3,329,145.75	3,329,145.21	1.000000
grc	Greece	309,916.88	309,916.79	1.000000
hun	Hungary	138,756.06	138,757.19	0.999992
irl	Ireland	259,706.50	259,706.13	1.000001
ita	Italy	2,116,202.25	2,116,201.72	1.000000
lva	Latvia	28,765.68	28,765.69	1.000000
ltu	Lithuania	39,103.98	39,103.97	1.000000
lux	Luxembourg	51,278.19	51,278.20	1.000000
mlt	Malta	7,448.55	7,448.55	1.000000
nld	Netherlands	778,311.94	778,311.56	1.000000
pol	Poland	425,321.59	425,321.39	1.000000
prt	Portugal	230,944.78	230,944.74	1.000000
svk	Slovakia	84,241.81	84,241.81	1.000000
svn	Slovenia	47,314.88	47,314.86	1.000000
esp	Spain	1,440,835.75	1,440,836.64	0.999999
swe	Sweden	462,512.94	462,512.85	1.000000
gbr	United Kingdom	2,799,040.00	2,799,040.36	1.000000
che	Switzerland	434,115.75	434,116.63	0.999998
nor	Norway	387,539.19	387,539.20	1.000009
alb	Albania	10,834.03	10,834.05	0.999998
bgr	Bulgaria	42,113.68	42,113.66	1.000000
blr	Belarus	45,275.17	45,275.71	0.999988
hrv	Croatia	58,558.24	58,558.23	1.000000
rou	Romania	169,282.56	169,282.49	1.000000

Code	Country Name	GTAP's 2007 GDP	WDI 2007 GDP (DEC 2010)	Ratio GTAP/WDI
rus	Russian Federation	1,299,707.75	1,299,705.76	1.000002
ukr	Ukraine	142,719.11	142,719.01	1.000001
kaz	Kazakhstan	104,853.59	104,853.48	1.000001
kgz	Kyrgyzstan	3,802.57	3,802.57	1.000002
arm	Armenia	9,206.25	9,206.28	0.999997
aze	Azerbaijan	33,049.41	33,049.38	1.000001
geo	Georgia	10,172.89	10,172.87	1.000002
bhr	Bahrain	18,473.14	18,473.10	1.000002
irn	Iran Islamic Republic of	286,057.31	286,057.93	0.999998
isr	Israel	166,989.69	166,989.61	1.000000
kwt	Kuwait	114,739.48	114,739.44	1.000000
omn	Oman	41,909.06	41,908.97	1.000002
qat	Qatar	80,750.87	80,750.82	1.000001
sau	Saudi Arabia	384,076.06	384,075.51	1.000001
tur	Turkey	647,155.06	647,155.13	1.000000
are	United Arab Emirates	207,570.63	207,569.78	1.000004
egy	Egypt	130,472.95	130,472.89	1.000000
mar	Morocco	75,226.32	75,226.32	1.000000
tun	Tunisia	35,619.61	35,619.59	1.000001
ben	Benin	5,546.82	5,546.18	1.000116
bfa	Burkina Faso	6,766.99	6,766.99	1.000000
cmr	Cameroon	20,685.89	20,685.92	0.999999
civ	Cote d'Ivoire	19,795.53	19,795.70	0.999992
gha	Ghana	24,632.56	24,632.48	1.000003
gin	Guinea	4,209.68	4,209.37	1.000073
nga	Nigeria	165,920.95	165,920.87	1.000001
sen	Senegal	11,334.02	11,334.24	0.999981
tgo	Togo	2,499.01	2,498.94	1.000028
eth	Ethiopia	19,182.29	19,182.28	1.000000
ken	Kenya	27,166.41	27,166.40	1.000000
mdg	Madagascar	7,342.86	7,342.83	1.000005
mwi	Malawi	3,585.73	3,585.86	0.999963
mus	Mauritius	7,521.22	7,521.24	0.999998
moz	Mozambique	8,030.02	8,030.02	1.000001
rwa	Rwanda	3,412.32	3,411.81	1.000149
tza	Tanzania	16,824.17	16,825.55	0.999918
uga	Uganda	11,892.33	11,892.38	0.999996

Code	Country Name	GTAP's 2007 GDP	WDI 2007 GDP (DEC 2010)	Ratio GTAP/WDI
zmb	Zambia	11,541.49	11,541.43	1.000005
zwe	Zimbabwe	4,423.76	N/A	
bwa	Botswana	12,385.77	12,385.70	1.000005
nam	Namibia	8,805.85	8,805.82	1.000004
zaf	South Africa	286,300.66	286,301.99	0.999995

Table A2. Comparison of 2007 GDP, GTAP 8 versus WB WDI collected in July 2013

Code	Country Name	GTAP's 2007 GDP	WDI 2007 GDP (JUL 2013)	Ratio GTAP/WDI
aus	Australia	856,910.88	850,516.61	1.007518
nzl	New Zealand	138,316.91	134,864.71	1.025598
chn	China	3,494,057.75	3,494,055.94	1.000001
hkg	Hong Kong	207,070.59	211,597.41	0.978606
jpn	Japan	4,377,944.50	4,356,329.30	1.004962
kor	Korea	1,049,236.00	1,049,235.95	1
mng	Mongolia	3,929.57	4,234.89	0.927903
tw	Taiwan	393,762.56	N/A	
khm	Cambodia	8,357.55	8,639.16	0.967402
idn	Indonesia	432,103.22	432,216.74	0.999737
lao	Lao People's Democratic Republ	4,286.49	4,222.95	1.015048
mys	Malaysia	186,642.03	193,552.80	0.964295
phl	Philippines	144,070.53	149,359.92	0.964586
sgp	Singapore	176,766.27	168,705.76	1.047779
tha	Thailand	247,109.80	246,976.87	1.000538
vnm	Viet Nam	68,435.24	71,015.59	0.963665
bgd	Bangladesh	68,415.45	68,415.42	1
ind	India	1,232,816.63	1,238,700.20	0.99525
npl	Nepal	10,282.58	10,325.62	0.995832
pak	Pakistan	143,169.64	143,171.18	0.999989
lka	Sri Lanka	32,351.19	32,350.25	1.000029
can	Canada	1,424,063.50	1,424,065.73	0.999998
usa	United States of America	14,061,780.00	13,961,800.00	1.007161
mex	Mexico	1,025,580.38	1,036,000.68	0.989942
arg	Argentina	260,789.20	260,768.70	1.000079
bol	Bolivia	13,120.10	13,120.11	1
bra	Brazil	1,365,983.13	1,366,853.24	0.999363
chl	Chile	164,315.30	172,868.47	0.950522
col	Colombia	207,362.75	207,416.49	0.999741
ecu	Ecuador	45,789.35	51,007.78	0.897693
pry	Paraguay	12,222.37	13,837.53	0.883277
per	Peru	107,492.29	107,233.00	1.002418
ury	Uruguay	23,951.91	23,410.54	1.023125
ven	Venezuela	226,791.06	230,364.01	0.98449
cri	Costa Rica	26,267.18	26,321.87	0.997923
gtm	Guatemala	34,113.09	34,113.11	0.999999
hnd	Honduras	12,392.33	12,358.05	1.002774
nic	Nicaragua	5,618.08	7,446.64	0.754446

Code	Country Name	GTAP's 2007 GDP	WDI 2007 GDP (JUL 2013)	Ratio GTAP/WDI
pan	Panama	19,793.95	19,793.66	1.000015
slv	El Salvador	20,376.63	20,104.90	1.013516
aut	Austria	372,291.44	375,041.78	0.992667
bel	Belgium	458,620.06	459,618.85	0.997827
cyp	Cyprus	21,447.08	21,841.82	0.981927
cze	Czech Republic	174,214.97	180,511.24	0.96512
dnk	Denmark	310,721.19	311,417.60	0.997764
est	Estonia	21,384.00	21,993.66	0.97228
fin	Finland	246,583.81	246,127.36	1.001855
fra	France	2,638,203.25	2,582,389.73	1.021613
deu	Germany	3,329,145.75	3,323,807.41	1.001606
grc	Greece	309,916.88	305,431.77	1.014684
hun	Hungary	138,756.06	136,102.02	1.0195
irl	Ireland	259,706.50	258,307.44	1.005416
ita	Italy	2,116,202.25	2,127,180.50	0.994839
lva	Latvia	28,765.68	28,765.69	1
ltu	Lithuania	39,103.98	39,103.97	1
lux	Luxembourg	51,278.19	51,320.63	0.999173
mlt	Malta	7,448.55	7,513.83	0.991311
nld	Netherlands	778,311.94	782,566.74	0.994563
pol	Poland	425,321.59	425,321.50	1
prt	Portugal	230,944.78	231,741.57	0.996562
svk	Slovakia	84,241.81	84,108.56	1.001584
svn	Slovenia	47,314.88	47,306.80	1.000171
esp	Spain	1,440,835.75	1,441,426.53	0.99959
swe	Sweden	462,512.94	462,512.85	1
gbr	United Kingdom	2,799,040.00	2,825,526.44	0.990626
che	Switzerland	434,115.75	450,528.11	0.963571
nor	Norway	387,539.19	393,479.16	0.984904
alb	Albania	10,834.03	10,704.66	1.012085
bgr	Bulgaria	42,113.68	42,113.66	1
blr	Belarus	45,275.17	45,275.71	0.999988
hrv	Croatia	58,558.24	59,335.98	0.986893
rou	Romania	169,282.56	169,282.49	1
rus	Russian Federation	1,299,707.75	1,299,705.76	1.000002
ukr	Ukraine	142,719.11	142,719.01	1.000001
kaz	Kazakhstan	104,853.59	104,849.92	1.000035
kgz	Kyrgyztan	3,802.57	3,802.57	1.000002
arm	Armenia	9,206.25	9,206.28	0.999997
aze	Azerbaijan	33,049.41	33,049.38	1.000001

Code	Country Name	GTAP's 2007 GDP	WDI 2007 GDP (JUL 2013)	Ratio GTAP/WDI
geo	Georgia	10,172.89	10,172.26	1.000062
bhr	Bahrain	18,473.14	18,473.10	1.000002
irn	Iran Islamic Republic of	286,057.31	286,057.93	0.999998
isr	Israel	166,989.69	167,111.80	0.999269
kwt	Kuwait	114,739.48	114,721.83	1.000154
omn	Oman	41,909.06	41,901.17	1.000188
qat	Qatar	80,750.87	79,546.98	1.015134
sau	Saudi Arabia	384,076.06	384,891.14	0.997882
tur	Turkey	647,155.06	647,155.13	1
are	United Arab Emirates	207,570.63	258,150.04	0.80407
egy	Egypt	130,472.95	130,477.82	0.999963
mar	Morocco	75,226.32	75,226.32	1
tun	Tunisia	35,619.61	38,848.71	0.91688
ben	Benin	5,546.82	5,506.28	1.007364
bfa	Burkina Faso	6,766.99	6,755.82	1.001653
cmr	Cameroon	20,685.89	20,431.78	1.012437
civ	Cote d'Ivoire	19,795.53	19,795.71	0.999991
gha	Ghana	24,632.56	24,757.64	0.994948
gin	Guinea	4,209.68	4,209.33	1.000083
nga	Nigeria	165,920.95	165,920.72	1.000001
sen	Senegal	11,334.02	11,319.75	1.001261
tgo	Togo	2,499.01	2,523.46	0.990311
eth	Ethiopia	19,182.29	19,556.75	0.980853
ken	Kenya	27,166.41	27,236.74	0.997418
mdg	Madagascar	7,342.86	7,342.91	0.999994
mwi	Malawi	3,585.73	3,647.82	0.982979
mus	Mauritius	7,521.22	7,792.06	0.965242
moz	Mozambique	8,030.02	8,035.64	0.999302
rwa	Rwanda	3,412.32	3,738.15	0.912838
tza	Tanzania	16,824.17	16,825.55	0.999918
uga	Uganda	11,892.33	11,916.02	0.998012
zmb	Zambia	11,541.49	11,541.42	1.000006
zwe	Zimbabwe	4,423.76	5,291.95	0.835941
bwa	Botswana	12,385.77	10,939.07	1.13225
nam	Namibia	8,805.85	8,811.61	0.999346
zaf	South Africa	286,300.66	286,171.83	1.00045

Table A3. Comparison of 2007 GDP, WB WDI and UN Data collected in July 2013

Code	Country Name	WDI 2007 GDP (JUL 2013)	UN 2007 GDP (JUL 2013)	Ratio WDI / UN
aus	Australia	850,516.61	983,998.04	0.864347863
nzl	New Zealand	134,864.71	135,224.77	0.997337264
chn	China	3,494,055.94	3,494,351.16	0.999915517
hkg	Hong Kong	211,597.41	207,087.26	1.021778963
jpn	Japan	4,356,329.30	4,356,346.72	0.999996002
kor	Korea	1,049,235.95	1,049,239.04	0.999997053
mng	Mongolia	4,234.89	4,235.00	0.99997508
tw	Taiwan	N/A	N/A	
khm	Cambodia	8,639.16	8,639.24	0.999991782
idn	Indonesia	432,216.74	432,216.74	1
lao	Lao People's Democratic Republ	4,222.95	4,213.93	1.002138574
mys	Malaysia	193,552.80	193,549.55	1.000016817
phl	Philippines	149,359.92	149,359.95	0.999999822
sgp	Singapore	168,705.76	177,579.53	0.950029319
tha	Thailand	246,976.87	261,825.65	0.943287535
vnm	Viet Nam	71,015.59	71,015.59	1
bgd	Bangladesh	68,415.42	68,599.31	0.99731936
ind	India	1,238,700.20	1,206,110.39	1.027020583
npl	Nepal	10,325.62	10,958.77	0.942224189
pak	Pakistan	143,171.18	142,792.54	1.002651692
lka	Sri Lanka	32,350.25	32,350.24	1.000000301
can	Canada	1,424,065.73	1,424,066.83	0.999999224
usa	United States of America	13,961,800.00	13,961,800.00	1
mex	Mexico	1,036,000.68	1,033,176.58	1.002733419
arg	Argentina	260,768.70	262,450.90	0.99359043
bol	Bolivia	13,120.11	13,120.08	1.000001771
bra	Brazil	1,366,853.24	1,366,853.76	0.999999624
chl	Chile	172,868.47	173,081.29	0.998770403
col	Colombia	207,416.49	207,416.49	1
ecu	Ecuador	51,007.78	45,503.56	1.120962264
pry	Paraguay	13,837.53	12,222.29	1.132154733
per	Peru	107,233.00	107,523.72	0.997296162
ury	Uruguay	23,410.54	23,410.57	0.999998723
ven	Venezuela	230,364.01	230,364.01	1
cri	Costa Rica	26,321.87	26,322.00	0.999994947
gtm	Guatemala	34,113.11	34,113.09	1.000000493
hnd	Honduras	12,358.05	12,361.26	0.999740537
nic	Nicaragua	7,446.64	5,662.05	1.315183465

Code	Country Name	WDI 2007 GDP (JUL 2013)	UN 2007 GDP (JUL 2013)	Ratio WDI / UN
pan	Panama	19,793.66	19,793.70	0.999997969
slv	El Salvador	20,104.90	20,104.89	1.000000461
aut	Austria	375,041.78	375,042.04	0.999999316
bel	Belgium	459,618.85	459,618.48	1.000000805
cyp	Cyprus	21,841.82	21,741.76	1.004602167
cze	Czech Republic	180,511.24	180,478.62	1.000180713
dnk	Denmark	311,417.60	311,417.55	1.000000153
est	Estonia	21,993.66	21,990.10	1.000162042
fin	Finland	246,127.36	246,127.53	0.999999316
fra	France	2,582,389.73	2,582,391.50	0.999999316
deu	Germany	3,323,807.41	3,323,809.69	0.999999316
grc	Greece	305,431.77	304,899.64	1.001745252
hun	Hungary	136,102.02	136,102.02	1
irl	Ireland	258,307.44	258,307.30	1.000000537
ita	Italy	2,127,180.50	2,127,181.95	0.999999316
lva	Latvia	28,765.69	28,651.01	1.004002492
ltu	Lithuania	39,103.97	39,318.58	0.994541741
lux	Luxembourg	51,320.63	51,312.04	1.000167358
mlt	Malta	7,513.83	7,489.64	1.00323097
nld	Netherlands	782,566.74	782,567.28	0.999999316
pol	Poland	425,321.50	425,129.43	1.000451802
prt	Portugal	231,741.57	231,741.73	0.999999316
svk	Slovakia	84,108.56	74,965.95	1.121956881
svn	Slovenia	47,306.80	47,347.15	0.99914786
esp	Spain	1,441,426.53	1,441,427.52	0.999999316
swe	Sweden	462,512.85	462,512.85	1
gbr	United Kingdom	2,825,526.44	2,825,528.32	0.999999333
che	Switzerland	450,528.11	450,529.67	0.999996529
nor	Norway	393,479.16	393,479.39	0.999999431
alb	Albania	10,704.66	10,701.02	1.000340646
bgr	Bulgaria	42,113.66	42,115.11	0.999965445
blr	Belarus	45,275.71	45,275.74	0.999999409
hrv	Croatia	59,335.98	59,335.61	1.000006172
rou	Romania	169,282.49	170,616.96	0.992178579
rus	Russian Federation	1,299,705.76	1,299,703.46	1.000001773
ukr	Ukraine	142,719.01	142,719.01	1
kaz	Kazakhstan	104,849.92	104,849.92	1
kgz	Kyrgyztan	3,802.57	3,802.57	0.999998842
arm	Armenia	9,206.28	9,206.30	0.999997543
aze	Azerbaijan	33,049.38	33,049.43	0.999998611

Code	Country Name	WDI 2007 GDP (JUL 2013)	UN 2007 GDP (JUL 2013)	Ratio WDI / UN
geo	Georgia	10,172.26	10,172.93	0.999933905
bhr	Bahrain	18,473.10	18,472.46	1.000034431
irn	Iran Islamic Republic of	286,057.93	312,141.19	0.916437622
isr	Israel	167,111.80	167,112.50	0.999995849
kwt	Kuwait	114,721.83	114,635.47	1.000753374
omn	Oman	41,901.17	41,900.83	1.000008182
qat	Qatar	79,546.98	79,711.97	0.997930107
sau	Saudi Arabia	384,891.14	384,942.23	0.999867289
tur	Turkey	647,155.13	647,139.78	1.000023724
are	United Arab Emirates	258,150.04	257,916.19	1.000906683
egy	Egypt	130,477.82	132,165.35	0.98723168
mar	Morocco	75,226.32	75,223.26	1.00004069
tun	Tunisia	38,848.71	38,909.90	0.998427466
ben	Benin	5,506.28	5,511.88	0.998983113
bfa	Burkina Faso	6,755.82	6,755.82	1
cmr	Cameroon	20,431.78	20,431.78	0.999999898
civ	Cote d'Ivoire	19,795.71	19,696.02	1.005060989
gha	Ghana	24,757.64	24,757.55	1.000003603
gin	Guinea	4,209.33	4,682.05	0.899035418
nga	Nigeria	165,920.72	166,451.20	0.996813007
sen	Senegal	11,319.75	11,284.60	1.003114398
tgo	Togo	2,523.46	2,530.58	0.997186216
eth	Ethiopia	19,556.75	19,182.48	1.019511123
ken	Kenya	27,236.74	27,236.71	1.000001113
mdg	Madagascar	7,342.91	7,342.92	0.999997585
mwi	Malawi	3,647.82	3,647.82	0.999999217
mus	Mauritius	7,792.06	7,792.06	0.99999955
moz	Mozambique	8,035.64	8,035.64	0.999999987
rwa	Rwanda	3,738.15	3,741.09	0.999212208
tza	Tanzania	16,825.55	16,825.55	0.999999997
uga	Uganda	11,916.02	13,548.70	0.879495638
zmb	Zambia	11,541.42	11,541.42	1.000000001
zwe	Zimbabwe	5,291.95	6,023.16	0.878599561
bwa	Botswana	10,939.07	12,379.04	0.883676985
nam	Namibia	8,811.61	8,811.47	1.000016108
zaf	South Africa	286,171.83	286,171.83	1